

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) An apparatus for creating a promotional event calendar, useful in association with at least one store, the apparatus comprising:
 - an econometric engine for modeling sales as a function of price to create a sales model;
 - a financial model engine for modeling costs to create a cost model;
 - a promotional engine coupled to the econometric engine, and financial model engine to receive input from the econometric engine and financial model engine, wherein the promotional engine analyzes a plurality of offers, a plurality of promotional events, and conditions from at least one manufacturer, and constraints from the at least one store to optimally match offers with promotional events to create a promotional event calendar subject to the conditions from the at least one store.
2. (Previously Amended) The apparatus, as recited in claim 1, wherein the promotional engine further comprises a temporary price reduction optimizing engine for optimizing temporary price reduction prices after the promotional events and offers have been selected.
3. (Original) The apparatus, as recited in claim 2, further comprising a support tool connected to the promotional engine wherein the support tool receives the promotional event calendar from the promotional engine and provides a user interface to a client, wherein the user interface provides the promotional event calendar to the client.
4. (Original) The apparatus, as recited in claim 1, wherein the promotional engine calculates the value of offers and the value of promotional events by using the financial model and sales model and selects combinations of the offers and the promotional events.

5. (Currently Amended) A computer-implemented method for creating a promotional event calendar, comprising:

creating a sales model;
creating a cost model;
determining conditions from at least one manufacturer;
determining e~~o~~nditions constraints from at least one store;
determining the value of offers using the sales model and cost model;
determining the value of promotional events using the sales model and cost model; and
selecting combinations of the offers and promotional events based on the determined values to create a promotion event calendar subject to the conditions from the at least one manufacturer and constraints from the at least one store.

6. (Previously Amended) The computer-implemented method, as recited in claim 5, wherein the creating of the sales model comprises:

creating a plurality of demand groups, wherein each demand group is a set of at least one product and wherein at least one of the demand groups is a set of at least two products;
creating a sales model for each demand group; and
creating a market share model for each product in each demand group.

7. (Previously Amended) The computer-implemented method, as recited in claim 6, further comprising the step of estimating net profit from the selected combination of offers and promotional events using the sales model and cost model.

8. (Currently Amended) A computer-implemented method for creating a promotional event calendar, comprising:

creating a sales model, comprising:

creating a plurality of demand groups, wherein each demand group is a set of at least one product and wherein at least one of the demand groups is a set of at least two products;

creating a sales model for each demand group; and

creating a market share model for each product in each demand group;

creating a cost model;

determining conditions from at least one manufacturer;

determining econditions constraints from at least one store;

determining the value of offers using the sales model and cost model;

determining the value of promotional events using the sales model and cost model;

selecting combinations of offers and promotional events based on the determined values to create a promotion event calendar subject to the conditions from the at least one manufacturer and constraints from the at least one store; and

estimating net profit from the selected combination of offers and promotional events using the sales model and cost model.

9. (Currently Amended) The apparatus as recited in claim 1, wherein the econditions constraints from the at least one store include at least one of ad space capacity and display space capacity.

10. (Currently Amended) The apparatus as recited in claim 1, wherein the econditions constraints from the at least one store include at least one of an event type, a number of events, a brand promotion frequency, and a product promotion frequency, display space capacity.

11. (Currently Amended) The computer-implemented method as recited in claim 5, wherein the econditions constraints from the at least one store include at least one of ad space capacity and display space capacity.

12. (Currently Amended) The computer-implemented method as recited in claim 5, wherein the conditions constraints from the at least one store include at least one of an event type, a number of events, a brand promotion frequency, and a product promotion frequency, display space capacity.
13. (Currently Amended) The computer-implemented method as recited in claim 8, wherein the conditions constraints from the at least one store include at least one of ad space capacity and display space capacity.
14. (Currently Amended) The computer-implemented method as recited in claim 8, wherein the conditions constraints from the at least one store include at least one of an event type, a number of events, a brand promotion frequency, and a product promotion frequency, display space capacity.
15. (Previously Added) The apparatus as recited in claim 1, wherein the matching of offers with promotional events includes solving an integer problem.
16. (Previously Added) The computer-implemented method as recited in claim 5, wherein the selection of combinations of offers and promotional events includes solving an integer problem.
17. (Previously Added) The computer-implemented method as recited in claim 8, wherein the selection of combinations of offers and promotional events includes solving an integer problem.
18. (New) The computer-implemented method as recited in claim 6, wherein the plurality of demand groups include a set of substitutable products.

19. (New) The apparatus as recited in claim 1, wherein the conditions from the at least one manufacturer include providing at least one of a promotional event and a specific amount of promotion.

20. (New) The apparatus as recited in claim 1, wherein the conditions from the at least one manufacturer include not providing a promotional event for a competitor's product.

21. (New) The computer-implemented method as recited in claim 5, wherein the conditions from the at least one manufacturer include providing at least one of a promotional event and a specific amount of promotion.

22. (New) The computer-implemented method as recited in claim 5, wherein the conditions from the at least one manufacturer include not providing a promotional event for a competitor's product.

23. (New) The computer-implemented method as recited in claim 8, wherein the conditions from the at least one manufacturer include providing at least one of a promotional event and a specific amount of promotion.

24. (New) The computer-implemented method as recited in claim 8, wherein the conditions from the at least one manufacturer include not providing a promotional event for a competitor's product.